

Title (en)
AN IN VITRO METHOD FOR THE CONSTRUCTION OF A DNA LIBRARY

Title (de)
EIN IN-VITRO-VERFAHREN ZUR HERSTELLUNG EINER DNA-BIBLIOTHEK

Title (fr)
METHODE DE PRODUCTION IN VITRO D'UNE BIBLIOTHEQUE D'ADN

Publication
EP 0973940 A1 20000126 (EN)

Application
EP 98907911 A 19980318

Priority
• DK 9800104 W 19980318
• DK 30797 A 19970318
• DK 43497 A 19970417
• DK 62597 A 19970530

Abstract (en)
[origin: WO9841653A1] A method for in vitro construction of a library of recombined homologous polynucleotides from a number of different starting DNA templates and primers by induced template shifts during a polynucleotide synthesis is described, whereby: A. extended primers are synthesized by a) denaturing the DNA templates, b) annealing primers to the templates, c) extending the said primers by use of a polymerase, d) stop the synthesis, and e) separate the extended primers from the templates; B. a template shift is induced by a) isolating the extended primers from the templates and repeating steps A.b) to A.e) using the extended primers as both primers and templates, or b) repeating steps A.b) to A.e), C. this process is terminated after an appropriate number of cycles of process steps A. and B.a), A. and B.b), or combinations thereof. Optionally the polynucleotides are amplified in a standard PCR reaction with specific primers to selectively amplify homologous polynucleotides of interest.

IPC 1-7
C12Q 1/68; **C12N 15/10**

IPC 8 full level
C12N 15/09 (2006.01); **C12N 9/00** (2006.01); **C12N 15/10** (2006.01); **C12P 21/02** (2006.01); **C12Q 1/68** (2006.01)

CPC (source: EP KR)
C12N 15/1027 (2013.01 - EP); **C12N 15/1093** (2013.01 - EP); **C12Q 1/68** (2013.01 - KR); **C12Q 1/6811** (2013.01 - EP)

Citation (search report)
See references of WO 9841653A1

Cited by
WO2011127405A1

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)
WO 9841653 A1 19980924; AT E399880 T1 20080715; AU 6611598 A 19981012; AU 741834 B2 20011213; BR 9808368 A 20000523; CA 2284253 A1 19980924; CN 1249784 A 20000405; DE 69839668 D1 20080814; DK 0973940 T3 20081020; EP 0973940 A1 20000126; EP 0973940 B1 20080702; IL 131966 A0 20010319; JP 2001515356 A 20010918; KR 20000076363 A 20001226; NZ 337900 A 20010525; PL 335860 A1 20000522

DOCDB simple family (application)
DK 9800104 W 19980318; AT 98907911 T 19980318; AU 6611598 A 19980318; BR 9808368 A 19980318; CA 2284253 A 19980318; CN 98802958 A 19980318; DE 69839668 T 19980318; DK 98907911 T 19980318; EP 98907911 A 19980318; IL 13196698 A 19980318; JP 54004398 A 19980318; KR 19997008465 A 19990917; NZ 33790098 A 19980318; PL 33586098 A 19980318